

FIG. 1

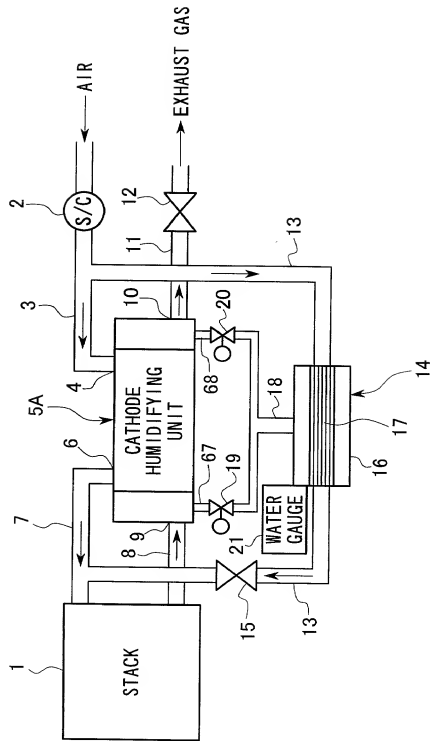


FIG. 2

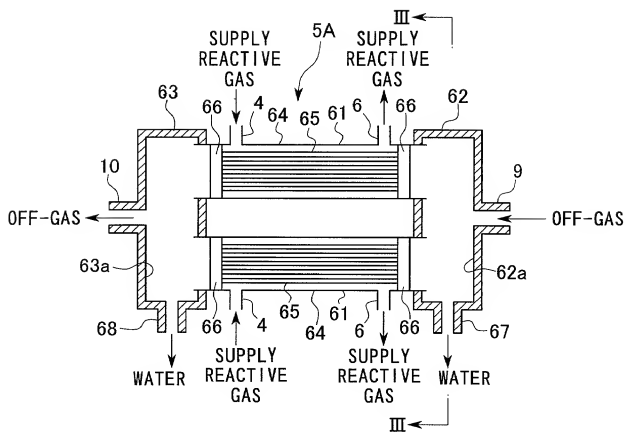


FIG. 3

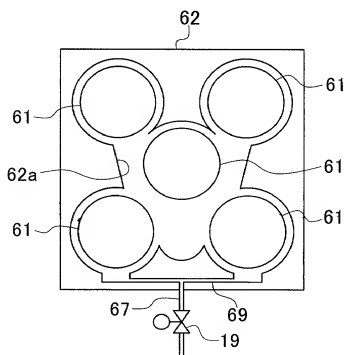


FIG. 4

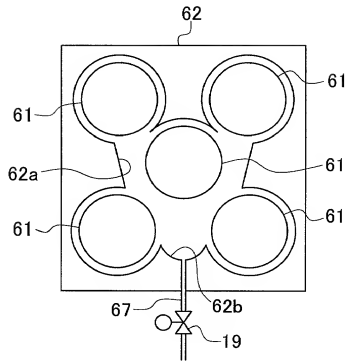


FIG. 5

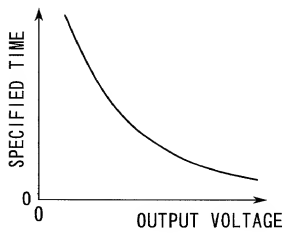


FIG. 6

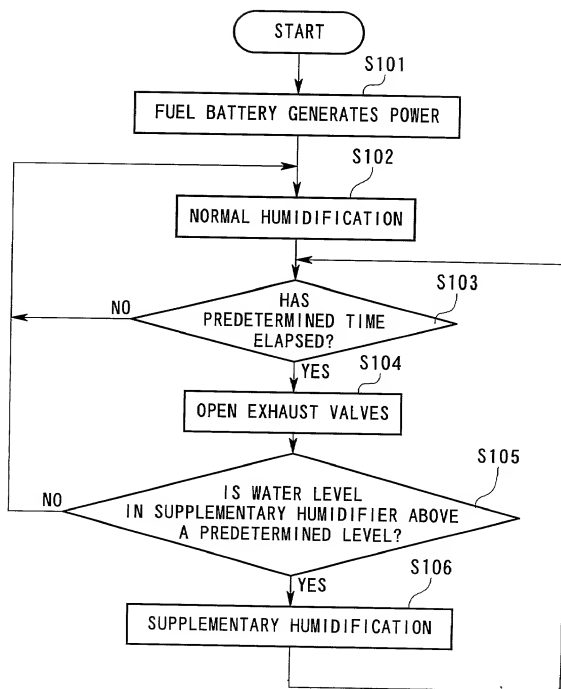


FIG. 7

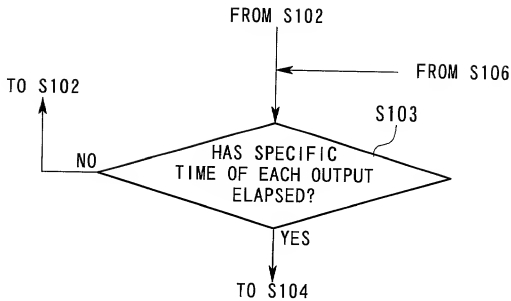


FIG. 8

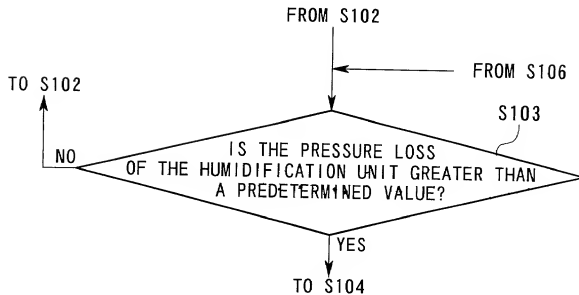


FIG. 9

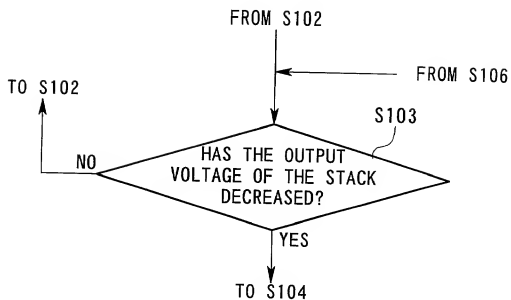


FIG. 10

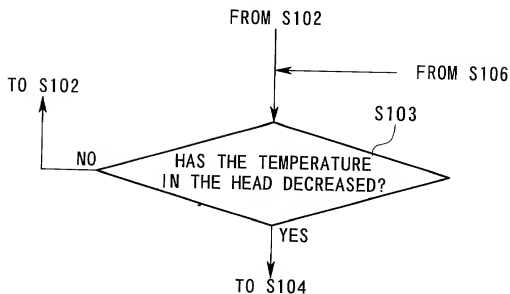


FIG. 12

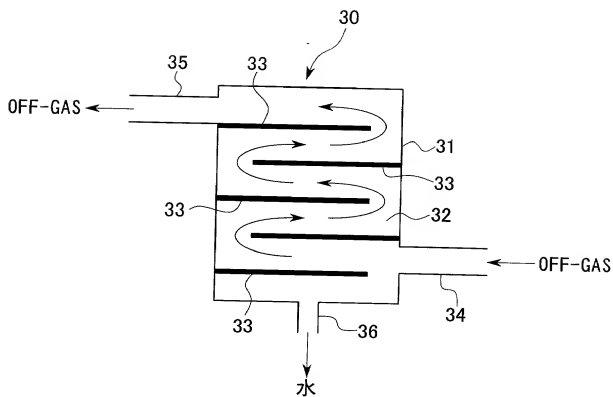
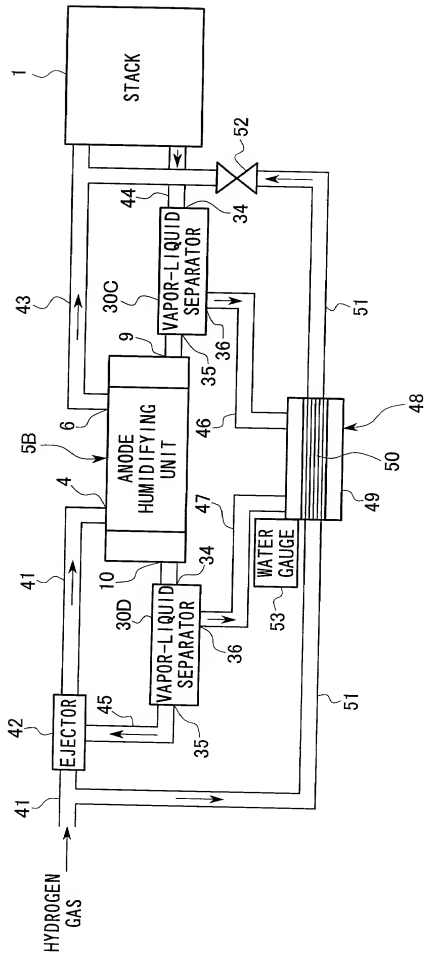


FIG. 13



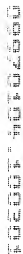
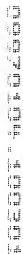


FIG. 16
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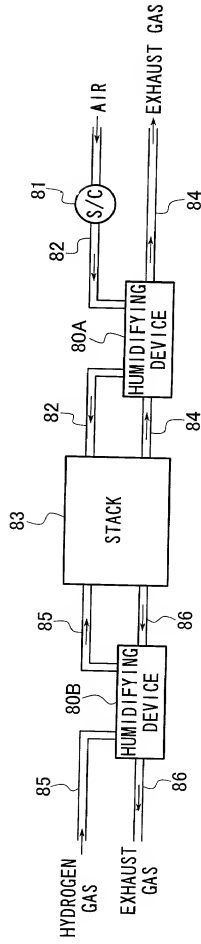


Figure 1 consists of 12 sub-graphs labeled (a) through (l), each showing the growth of *E. coli* O157:H7 in ground beef under different treatment conditions. The y-axis for all graphs is \log_{10} CFU/g, ranging from 0 to 10. The x-axis for all graphs is time in hours, ranging from 0 to 120. The graphs show various growth curves, with some treatments showing significant growth inhibition compared to the control.

- (a) Control: Shows a steady increase in bacterial count from approximately 10^1 to 10^8 CFU/g over 120 hours.
- (b) Salt: Shows a slight increase in bacterial count from approximately 10^1 to 10^2 CFU/g over 120 hours.
- (c) Acetic acid: Shows a slight increase in bacterial count from approximately 10^1 to 10^2 CFU/g over 120 hours.
- (d) Lactic acid: Shows a slight increase in bacterial count from approximately 10^1 to 10^2 CFU/g over 120 hours.
- (e) Citric acid: Shows a slight increase in bacterial count from approximately 10^1 to 10^2 CFU/g over 120 hours.
- (f) Malic acid: Shows a slight increase in bacterial count from approximately 10^1 to 10^2 CFU/g over 120 hours.
- (g) Succinic acid: Shows a slight increase in bacterial count from approximately 10^1 to 10^2 CFU/g over 120 hours.
- (h) Tartaric acid: Shows a slight increase in bacterial count from approximately 10^1 to 10^2 CFU/g over 120 hours.
- (i) Fumaric acid: Shows a slight increase in bacterial count from approximately 10^1 to 10^2 CFU/g over 120 hours.
- (j) Gluconic acid: Shows a slight increase in bacterial count from approximately 10^1 to 10^2 CFU/g over 120 hours.
- (k) Mannic acid: Shows a slight increase in bacterial count from approximately 10^1 to 10^2 CFU/g over 120 hours.
- (l) Sorbic acid: Shows a slight increase in bacterial count from approximately 10^1 to 10^2 CFU/g over 120 hours.

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